

47 Watts LCT43-E Series

Total Power: 47 Watts
Input Voltage: 85-264 VAC
120-300 VDC
of Outputs: Triple



Special Features

- Totally enclosed
- Universal input
- Quick Installation
- Built-in EMI filter
- Low output ripple
- Overvoltage protection
- Overload protection

Environmental

Operating temperature: 0° to 50°C ambient; derate each output at 2.5% per degree from 50° to 70°C

Electromagnetic susceptibility: designed to meet IEC 1000-4, -2, -3, -4, -5, -6, 8, 11 Level 3

Humidity: Operating; non-condensing 5% to 90%

Vibration: .41 G from 3 to 500 Hz Spectral break points of .0065 G2/Hz at 10 Hz and 200 Hz and 5 db/octave roll off at each end, 2 hours per axis

Storage temperature: -40° to 85°C

Temperature coefficient: ±.04% per °C

MTBF demonstrated: >300,000 hrs @ full load and 25°C ambient conditions

Electrical Specs

Input

Input range	85-264 VAC 120-300 VDC
Frequency	47-63 Hz
Inrush current	<20 A peak @ 115 VAC; <40 A peak @ 230 VAC, cold start @ 25°C
Input current	1 A max. (RMS) @ 115 VAC
Efficiency	70% typical at full load
EMI filter	FCC Class B conducted and radiated CISPR 22 Class B conducted and radiated EN55022 Class B conducted and radiated Bellcore GR-1089-core Class B conducted

Safety ground leakage current

<3.5 mA @ 50/60 Hz, 264 VAC input

Output

Maximum power	47 W with 12 CFM forced air
Cross regulation	±2% on output 1; ±5% on outputs 2, 3
Hold-up time	10 ms @ 47 W load, 100 VAC input
Overload protection	Short circuit protection on all outputs. Case overload protected @ 110-135% above peak rating
Overvoltage protection	5.50-6.75 VDC on main output

Safety

VDE	0805/EN60950 (IEC950)	21310-3336-0003
UL	UL1950	E186249
CSA	CSA 22.2-234-950-95-M90	
CB	Certificate and report	6593
CE	Mark (LVD)	

rev 8.11.04

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Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 12 CFM Forced Air	Peak Load1	Regulation2	Ripple P/P (PARD)3
LCT43-E	+5 V	1.0 A	4 A	7 A	8 A	+4 / -2%	50 mV
	+12 V	0.1 A	1 A	1.2 A	1.5 A	±5%	120 mV
	-12 V	0 A	0.5 A	0.5 A	0.6 A	±5%	120 mV

1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 µF in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
4. Minimum Loads are required.

Pin Assignments

Connector	LCT43-E
SK1-1	AC Line
SK1-2	Ground
SK1-3	AC Neutral
SK2-1	-12 V
SK2-2	Com
SK2-3	+5 V
SK2-4	+5 V
SK2-5	Com
SK2-6	+12 V

Mating Connectors

AC Input: IEC 320

DC Outputs: Molex 15-48-0406 (USA)

Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ±.02".
3. Specifications are for convection rating at factory settings at 115 VAC input,
25°C unless otherwise stated.
4. Warranty: 1 year
5. Weight: 1.25 lb. / 0.57 kg

